### INTERNATIONAL SEARCH REPORT

tional Application No PCT/US2004/025733

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G05B23/02 G05B13/04 G05B17/02

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 - G05B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

#### EPO-Internal

Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
US 5 602 761 A (SPOERRE JULIE K ET AL) 11 February 1997 (1997-02-11)	1-5, 8-14, 17-28,31
column 5, line 10 - column 12, line 23	6,29
US 5 548 528 A (HAVENER JOHN P ET AL) 20 August 1996 (1996-08-20) column 4, line 40 - column 5, line 10	6,29
US 6 199 019 B1 (YUKITOMO MASANORI ET AL) 6 March 2001 (2001-03-06) column 8, line 63 - column 9, line 35	1
EP 1 298 511 A (RELIANCE ELECTRIC TECHNOLOGIES) 2 April 2003 (2003-04-02) paragraph '0040! - paragraph '0042!	1
	US 5 602 761 A (SPOERRE JULIE K ET AL) 11 February 1997 (1997-02-11)  column 5, line 10 - column 12, line 23  US 5 548 528 A (HAVENER JOHN P ET AL) 20 August 1996 (1996-08-20) column 4, line 40 - column 5, line 10  US 6 199 019 B1 (YUKITOMO MASANORI ET AL) 6 March 2001 (2001-03-06) column 8, line 63 - column 9, line 35  EP 1 298 511 A (RELIANCE ELECTRIC TECHNOLOGIES) 2 April 2003 (2003-04-02)

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
<ul> <li>Special categories of cited documents:</li> <li>"A" document defining the general state of the art which is not considered to be of particular relevance</li> <li>"E" earlier document but published on or after the international filling date</li> <li>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</li> <li>"O" document referring to an oral disclosure, use, exhibition or other means</li> <li>"P" document published prior to the international filling date but fater than the priority date claimed</li> </ul>	<ul> <li>"T" later document published after the international filing date or priority date and not in conflict with the application but clied to understand the principle or theory underlying the invention</li> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>"&amp;" document member of the same patent family</li> </ul>
Date of the actual completion of the international search  24 January 2005	Date of mailing of the international search report  03/02/2005
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL – 2280 HV Rijswljk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax (+31-70) 340-3016	Authorized officer  Kelperis, K

# INTERNATIONAL SEARCH REPORT

Intertional Application No PCT/US2004/025733

	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	la.
Category °	Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/179050 A1 (PALLETT TOBIAS JOHN ET AL) 5 December 2002 (2002-12-05) paragraph '0030! - paragraph '0032!	1

## INTERNATIONAL SEARCH REPORT

Internal Application No PCT/US2004/025733

					.00 1, 020, 00	
Patent document cited in search report		Publication date		Patent family member(s)	Publication date	
US 5602761	Α	11-02-1997	NONE			
US 5548528	A	20-08-1996	US	5386373 A	31-01-1995	
			AU	688353 B2	12-03-1998	
			AU	7375894 A	28-02-1995	
			AU	677694 B2	01-05-1997	
			ΑU	7477694 A	28-02-1995	
			CA	2167588 A1	16-02-1995	
			CA	2167927 A1	16-02-1995	
			DE	69418199 D1	02-06-1999	
			DE	69418199 T2	30-12-1999	
			DE	69423895 D1	11-05-2000	
			DE	69423895 T2	07-12-2000	
			EP	0712463 A1	22-05-1996	
			EP	0712509 A1	22-05-1996	
			JP	9501782 T	18-02-1997	
			JP	9504346 T	28-04-1997	
			WO	9504957 A1	16-02-1995	
			WO	9504878 A1	16-02-1995	
			US	5539638 A	23-07-1996	
			US 	5682317 A	28-10-1997 	
US 6199019	B1	06-03-2001	СН	693568 A5	15-10-2003	
			CN	1207170 A ,C	03-02-1999	
			FI	981016 A	06-07-1998	
			HK	1018643 A1	17-09-2004	
			MO	9811417 A1	19-03-1998	
			JP	10258974 A	29-09-1998	
EP 1298511	Α	02-04-2003	EP	1298511 A1	02-04-2003	
US 2002179050	A1	05-12-2002	US	6460409 B1	08-10-2002	
			DE	10122456 A1	29-11-2001	
			GB	2362226 A ,B	14-11-2001	
			US	2003005756 A1	09-01-2003	